

METERING BALL VALVE AND METHOD OF DETERMINING FLUID FLOW THERE THROUGH

ABSTRACT

1 A metering ball valve has a slot and a flow channel design such that flow varies in a
2 linear manner as the valve is operated over the range from open to shut. Reasonably
3 accurate volumetric flow rate determination is achieved based on valve position indication
4 on the valve itself. In an alternative embodiment, the ball valve has an array of orifices that
5 replace the slot. A method is disclosed to determine flow rate based on valve position
6 indication.